

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G11B7/007 G11B20/12 G11B7/24 G11B7/0037

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 2001/033543 A1 (NISHIUCHI KENICHI ET AL) 25 October 2001 (2001-10-25) paragraphs '0056!, '0066!, '0074! - '0076!, '0083!; figures 5,7	1,2,4
A	US 2002/186637 A1 (VAN WOUDENBERG ROEL ET AL) 12 December 2002 (2002-12-12) paragraph '0016!; figures 4A,4B	3,5-8
A	US 2003/031098 A1 (HISAKADO YUJI ET AL) 13 February 2003 (2003-02-13) paragraphs '0074!, '0075!; figures 1,2	1,4
A	EP 1 126 446 A (PIONEER CORP) 22 August 2001 (2001-08-22) paragraphs '0028! - '0030!; figures 1,5	1,4
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

Date of mailing of the international search report

9 August 2004

16/08/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03/102937 A (SAMSUNG ELECTRONICS CO LTD) 11 December 2003 (2003-12-11) the whole document -----	1, 4
P, X	WO 2004/003899 A (SAMSUNG ELECTRONICS CO LTD) 8 January 2004 (2004-01-08) the whole document -----	1, 4
P, X	WO 03/100702 A (SONY CORP ; ISHIDA TAKASHI (JP); KOBAYASHI SHOEI (JP); KADOWAKI SHIN-I) 4 December 2003 (2003-12-04) the whole document -----	1, 4

## Information on patent family members

International Application No

PCT/IB2004/050219

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2001033543	A1	25-10-2001	JP US	2002117550 A 2004090897 A1		19-04-2002 13-05-2004
US 2002186637	A1	12-12-2002	BR CN CZ EP WO TW	0204490 A 1462432 T 20023800 A3 1374232 A1 02075728 A1 563112 B		24-06-2003 17-12-2003 16-04-2003 02-01-2004 26-09-2002 21-11-2003
US 2003031098	A1	13-02-2003	AU WO	4692601 A 0180227 A1		30-10-2001 25-10-2001
EP 1126446	A	22-08-2001	JP CN EP TW US US	2001229547 A 1321971 A 1126446 A2 501114 B 2003081536 A1 2001014077 A1		24-08-2001 14-11-2001 22-08-2001 01-09-2002 01-05-2003 16-08-2001
WO 03102937	A	11-12-2003	KR WO US	2003092589 A 03102937 A1 2004125738 A1		06-12-2003 11-12-2003 01-07-2004
WO 2004003899	A	08-01-2004	WO US	2004003899 A1 2004013067 A1		08-01-2004 22-01-2004
WO 03100702	A	04-12-2003	JP WO	2003346379 A 03100702 A2		05-12-2003 04-12-2003